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## PATENT ABSTRACTS OF JAPAN

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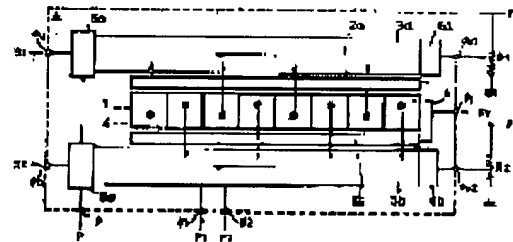
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## (54) CHARGE TRANSFER DEVICE

(57)Abstract:

**PURPOSE:** To simplify the constitution of a signal processing circuit connected to the poststage by correcting the DC level difference when the signal charge is transferred and then to reduce the cost of an electronic equipment containing a CCD linear sensor together with miniaturization of the structure of the electronic equipment.

**CONSTITUTION:** The photodetecting parts 4 corresponding to the picture elements are arrayed in a single direction as a photodetecting part train 1. The reading gates 2a and 2b are formed at both sides of the train 1 and in common to each part 4. Furthermore the horizontal shift registers 3a and 3b are formed centering on the train 1 and at the sides opposite to the gates 2a and 2b respectively. In such a constitution of a CCD linear sensor A, the charge injecting parts 6a and 6b are connected to the end parts of both registers 3a and 3b opposite to the output parts 5a and 5b respectively. Then the potential V applied to both parts 6a and 6b is controlled by the variable resistors R1 and R2. Thus the amount of charge to be injected to the registers 3a and 3b through the parts 6a and 6b can be controlled.



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